(c)

i. V = 20 litre

P = 29 atm

P_1 = 1.25 atm

V_1 =?

T = T_1

Using gas equation,

$$\frac{PV}{T} = \frac{P_1 V_1}{T_1}$$

$$\frac{29 \times 20}{T} = \frac{1.25 \times V_1}{T}$$

V_1 = 464 litres

ii.

P = 100 atm

V = 20 litres

P_1 = 1 atm

V_1 = ?

T = T_1

Using equation,

$$\frac{PV}{T} = \frac{P_1 V_1}{T_1}$$

$$\frac{100 \times 20}{T} = \frac{1 \times V_1}{T}$$

V_1 = 2000 litres = 2 m^3 (1000 lit. = 1m^3)

Volume of one flask = $\frac{200}{100 \times 100 \times 100}$ m^3

Number of flasks = $\frac{2 \times 1000000}{200}$ = 10000

Number of flasks = 10000